

# SUNCUE CIRCULATING GRAIN DRYER

## CPR-165 / CPR-390

- The low-temp., even and speedy drying minimizes broken grains and produces beautiful kernels.
- The entire dryer is designed to be strong and sturdy, making it suitable for heavy-duty.
- With foolproof design, users can dry high-quality grain from the 1<sup>st</sup>, 100<sup>th</sup> to 1000<sup>th</sup> batch. Grain consistent in quality will be available to customers.
- Automatic moisture control prevents over-drying and weight loss.
- By using self-milled free rice husk, users no longer need to spend on diesel, natural gas or electricity as dryers' heat sources.



Corn



Rapeseed



Paddy



Pulses



CPR-165



CPR-165+CL-10Hx1  
Horizontal Type



CPR-390



CPR-390+CL-10Hx2  
Horizontal Type



CPR-390B

Heat Source Model	Diesel	Gas	Husk	Biomass	Steam	Diesel & Husk Dual	Gas & Husk Dual	CL-10 Unit
CPR-165	●	●	●	●	●	—	—	1
CPR-390	●	●	●	—	—	●	●	2

### HONOR & RECOGNITION OF SUNCUE

Gold medal  
at the iENA 2012  
in Nuremberg, Germany



World Genius Convention 2013 in Tokyo, Japan  
Special Genius Award    Genius Gold Medal



Invention and Creation  
Awards of Taiwan-  
Contribution Award



Invention Award  
of Taiwan



TAIWAN  
EXCELLENCE  
2021



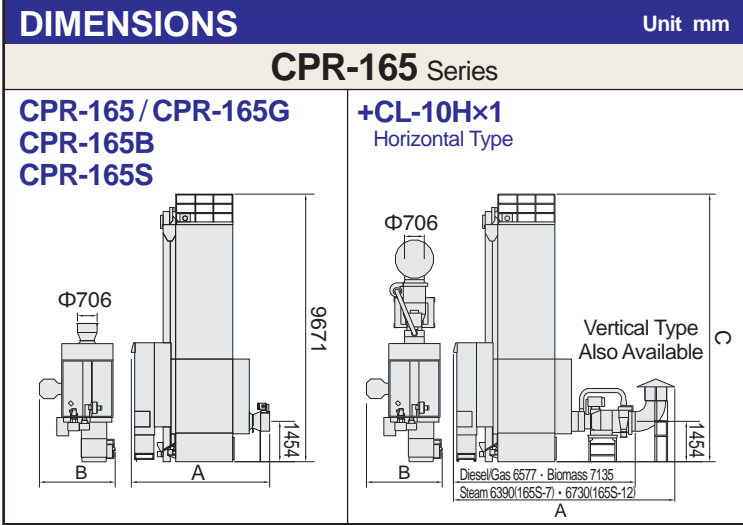
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2021





FEATURES

- Particular design for drying section to optimize both of even drying and efficiency.
- Giant drying section, speedy drying, power saving, premium quality of grains.
- Equipped with multiple distribution devices and rotary valves to regulate re-circulation cycle, ensuring uniform drying of grains.
- Heat source powered by biomass (rice husk), featuring fully automated constant temperature control. This system enhances drying efficiency, improves drying quality, and significantly reduces overall drying costs.
- Safety operation monitor system: motor overload protection, control fuse, full load buzzer, air pressure switch, flame sensor, over heat sensor, over drying safety device in CS-R.



SPECIFICATIONS

Diesel・Gas

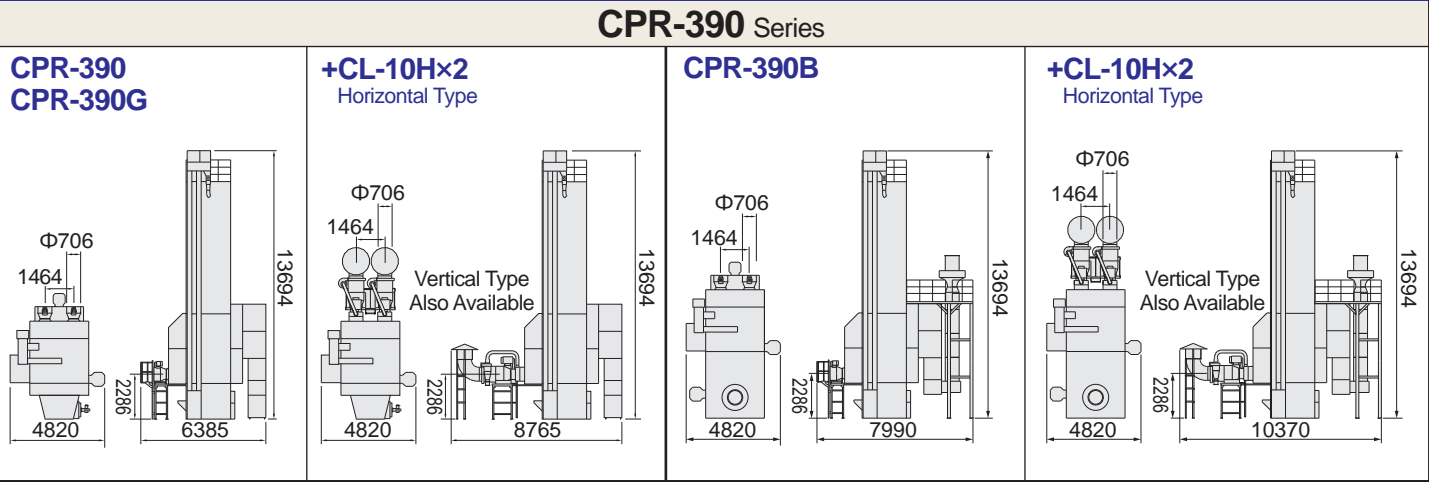
Item		Model	CPR-165 Low-temp	CPR-165 High-temp	CPR-390
Heat Source			Kerosene or Premium Diesel*		
Thermal Energy			Approx. 8.8~23 liter/hr	17.5~27 liter/hr	27~54
Capacity Approx. kg	Paddy	1 liter=560g	6,500~13,250	—	14,800~32,100
	Rapeseed	1 liter=680g	7,500~16,320	—	18,000~39,000
	Wheat	1 liter=680g			
	Pulses, Corn	1 liter=690g	7,500~16,350	18,300~39,600	
Dimension L×W×H (A)×(B)×(C) mm	Without CL-10		5,007×2,745×9,671	6,385×4,820×13,694	
	With CL-10	Horizontal Type	8,012×2,745×9,671	8,765×4,820×13,694	
		Vertical Type	Please contact the sales department		Please contact the sales department
Net Weight	Without CL-10		3,170	9,200	
Approx. kg	With CL-10	Horizontal Type	3,718	10,200	
		Vertical Type	Please contact the sales department		Please contact the sales department
Power Consumption kW	Without CL-10		6.45	13.8	
	With CL-10		10.25	21.4	
Function	Loading	Approx. mins	Paddy 66 • Rapeseed/Pulses 60	Pulses/Corn 75	Paddy 56 • Rapeseed/Pulses 67
	Discharging	Approx. mins	Paddy/Rapeseed/Pulses 65	Pulses/Corn 70	Paddy51 • Rapeseed/Pulses 60
	Drying Rate %/hr	Commercial Grains Seed	0.5~1.2	Pulses/Corn 1.0~2.0	0.5~1.2
			Paddy/Wheat 0.2~1.0 • Rapeseed 0.1~0.5	—	Paddy/Wheat 0.2~1.0 • Rapeseed 0.1~0.5
Type			Gun type		
Electricity			3P, 220V/380V/415V/440V, 50/60Hz		
Safety Devices			Thermo-over relay, Air pressure switch, Full load buzzer, Timer, Control fuse, Flame sensor, Over heat sensor.		

\*Use high-quality kerosene or premium diesel only.

Item	Model	CPR-165G	CPR-390G
Heat Source		LPG	NG
Max. Combustion		Approx. 25 kg/hr	27.3 m³/hr
Capacity Approx. kg	Paddy 1 liter=560g	6,500~13,250	14,800~32,100
	Rapeseed 1 liter=680g	7,500~16,320	18,000~39,000
	Wheat 1 liter=680g		
	Pulses, Corn 1 liter=690g		
Dimension L×V×H (A)×(B)×(C) mm	Without CL-10	5,007×3,210×9,671	6,385×4,820×13,694
	With CL-10	8,012×3,210×9,671	8,765×4,820×13,694
	Horizontal Type Vertical Type	Please contact the sales department	Please contact the sales department
Net Weight Approx. kg	Without CL-10	3,170	9,200
	With CL-10	3,718	10,200
Power Consumption kW		Without CL-10	6.6
		With CL-10	10.4
Function	Loading Approx. mins	Paddy 66・Rapeseed/Pulses 60	Paddy 56・Rapeseed/Pulses 67
	Discharging Approx. mins	Paddy/Rapeseed/Pulses 65	Paddy51・Rapeseed/Pulses 60
	Drying Rate %/hr	Commercial Grains 0.5~1.2	Pulses/Corn 1.0~2.0
Type		Gun type	
Electricity		3P, 220V/380V/415V/440V, 50/60Hz	
Safety Devices		Thermo-over relay, Air pressure switch, Full load buzzer, Timer, Control fuse, Flame sensor, Over heat sensor.	

- The specification and graph are for reference only. Actual specification of SUNCUE product shall be based on the Sales Confirmation which customers sign and delivered products.
- The required thermal energy is for reference only. Actual data will differ among grain variety, impurity rate, and drying condition. • Please apply low hot air temperature for drying paddy to prevent high breakage rate.
- The specifications of burner shown above are Japanese standard (Thermal energy: NG 11,000 Kcal/m³; LPG 12,000 Kcal/kg). Please consult with SUNCUE for burner with CE standard.
- The density, composition and pressure of natural gas vary at different locations, thus thermal energy per m³ also varies. Ex: 8,900Kcal/m³ in Taiwan, 11,000Kcal/m³ in Japan, 8,400Kcal/m³ in Sichuan province of China.
- Gas pipe lines have to be built by certified local professionals. NEVER do it by yourself. • The user shall prepare dust collecting bags when using CL-10 without a central dust collecting system.
- Different platform, rain hood, exhaust chamber, exhaust pipe, stand, balustrade and other accessories are required for each dryer and CL-10 model. • Above numbers and drying rate are derived from reducing moisture in paddy from 26% to 15%, wheat/corn from 30% to 12.5% — for reference only. Actual results vary among different ambient temperature, relative humidity, grain varieties, hot air temperature, moisture content before and after drying. • Boiler is a dangerous device. It should be installed in a boiler house and operated by professionally-trained personnel with official license by laws. The operation must obey local government regulations.

DIMENSIONS



SPECIFICATIONS

Biomass・Steam

Item	Model	CPR-165B	CPR-390B
Heat Source		SUNCUE Biomass Furnace BB-18 / Rice Husk Furnace SB	SUNCUE Rice Husk Furnace SB
Capacity Approx. kg	Paddy 1 liter=560g	6,500~13,250	14,800~32,100
	Rapeseed 1 liter=680g	7,500~16,320	18,000~39,000
	Wheat 1 liter=680g		
	Pulses, Corn 1 liter=690g		
Dimension L×V×H (A)×(B)×(C) mm	Without CL-10	5,565×2,675×9,671	7,990×4,820×13,694
	With CL-10	8,570×2,675×9,671	10,370×4,820×13,694
Net Weight Approx. kg		Without CL-10	3,420
		With CL-10	3,968
Required Thermal Energy Per Unit		Paddy, Rapeseed Wheat Approx. Kcal/hr	36,000~145,000 Ambient Temp. +10~40°C
		Pulses, Corn	36,000~235,000 Ambient Temp. +10~65°C
Power Consumption kW	Without CL-10	7.7	16.84
	With CL-10	11.5	24.44
	Loading Approx. mins	Paddy 66・Rapeseed/Pulses 60	Paddy 56・Rapeseed 67
Function	Discharging Approx. mins	Paddy/Rapeseed/Pulses 65	Paddy51・Rapeseed 60
	Drying Rate %/hr	Commercial Grains 0.5~1.2	Pulses/Corn 1.0~2.0
	Seed	Paddy/Wheat/Rapeseed 0.2~1.0・Rapeseed 0.1~0.5	Paddy/Wheat 0.2~1.0・Rapeseed 0.1~0.5
Electricity		3P, 220V/380V/415V/440V, 50/60Hz	
Safety Devices		Thermo-over relay, Air pressure switch, Full load buzzer, Timer, Control fuse.	Thermo-over relay, Air pressure switch, Full load buzzer, Timer, Control fuse, Rotation sensor.

Item	Model	CPR-165S-7	CPR-165S-12
Heat Source		Steam	
Capacity Approx. kg	Paddy 1 liter=560g	6,500~13,250	
	Rapeseed 1 liter=680g	7,500~16,320	
	Wheat 1 liter=680g		
	Pulses, Corn 1 liter=690g		
Dimension L×V×H (A)×(B)×(C) mm	Without CL-10	4,820×2,890×9,671	5,160×2,890×9,671
	With CL-10	7,825×2,890×9,671	8,165×2,890×9,671
	Horizontal Type Vertical Type	Please contact the sales department	Please contact the sales department
Net Weight Approx. kg	Without CL-10	3,520	3,620
	With CL-10	4,068	4,168
Power Consumption kW		Without CL-10	6.2
		With CL-10	10
Function	Loading Approx. mins	Paddy 66・Rapeseed/Pulses 60	
	Discharging Approx. mins	Paddy/Rapeseed/Pulses 65	
	Drying Rate %/hr	Commercial Grains 0.5~1.2	Pulses/Corn 1.0~2.0
Type		Paddy/Wheat 0.2~1.0・Rapeseed 0.1~0.5	
Applicable Region		Regular	Cold, Frigid
Applicable Grains		Paddy/Rapeseed/Wheat	Paddy/Rapeseed/Wheat/Pulses/Corn
Temp. Increase Range		Ambient Temp. Approx. +15~50°C	+15~63°C
Boiler Capacity		Approx. ton/hr 0.6	0.8
Boiler Pressure		Approx. kg/cm² 7	
Electricity		3P, 220V/380V/415V/440V, 50/60Hz	
Safety Devices		Thermo-over relay, Air pressure switch, Full load buzzer, Timer, Control fuse.	